NPL Files:-
File 8:Ei Compendex(R) 1884-2008/Oct W4
(c) 2008 Elsevier Eng. Info. Inc.
File 35:Dissertation Abs Online 1861-2008/Oct
(c) 2008 ProQuest Info&Learning
File 65:Inside Conferences 1993-2008/Nov 11
(c) 2008 BLDSC all rts. reserv.
File 2:INSPEC 1898-2008/Oct W2
(c) 2008 Institution of Electrical Engineers
File 6:NTIS 1964-2008/Nov W3
(c) 2008 NTIS, Intl Cpyrght All Rights Res
File 144:Pascal 1973-2008/Nov W1
(c) 2008 INIST/CNRS
File 34:SciSearch(R) Cited Ref Sci 1990-2008/Nov W2
(c) 2008 The Thomson Corp
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 2006 The Thomson Corp
File 99:Wilson Appl. Sci & Tech Abs 1983-2008/Oct
(c) 2008 The HW Wilson Co.
File 95:TEME-Technology & Management 1989-2008/Oct W4
(c) 2008 FIZ TECHNIK
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 Gale/Cengage
File 256:TecInfoSource 82-2008/Mar
(c) 2008 Info.Sources Inc
File 56:Computer and Information Systems Abstracts 1966-2008/Nov
(c) 2008 CSA.
File 60:ANTE: Abstracts in New Tech & Engineer 1966-2008/Oct
(c) 2008 CSA.
File 57:Electronics & Communications Abstracts 1966-2008/Nov
(c) 2008 CSA.
File 108:Aerospace and High Technology Database 1962-2008/Aug
(c) 2008 CSA.
File 603:Newspaper Abstracts 1984-1988
(c)2001 ProQuest Info&Learning
File 483:Newspaper Abs Daily 1986-2008/Nov 12
(c) 2008 ProQuest Info&Learning
File 98:General Sci Abs 1984-2008/Sep
(c) 2008 The HW Wilson Co.
File 553:Wilson Bus. Abs. 1982-2008/Sep
(c) 2008 The HW Wilson Co
File 239:Mathsci 1940-2008/Dec
(c) 2008 American Mathematical Society

Set Items Description
S1 51234 FFT OR FOURIER()(FREQUENC??? OR FREQ??)()TRANSFORM?????? OR MDCT OR MODIFIED()DISCRETE()COSINE()TRANSFORM??????
S2 430791 (FREQUENC??? OR FREQ??? OR SPECTR??? OR SPECTRALCONTENT??)-(5N)(TIME OR DURATION?? OR PERIOD?? OR TIMEFRAME??)
S3 24014 (CHANG??? OR ALTER????? OR VARY??? OR VARIES OR VARIED OR -ADJUST???? OR CORRECT???? OR AMEND??? OR MODIF???????)(5N)S2
S4 67239 (AUDIO OR SPEECH?? OR ACOUSTIC?? OR VOICE?? OR SOUND??)(5N-)(COD??? OR ENCOD??? OR COMPRES?????)
S5 2650 AU=(VINTON M? OR VINTON, M? OR DAVIDSON G? OR DAVIDSON, G?)
S6 3 S1 AND S3 AND S4
S7 3 RD (unique items)

S8 87 S1 AND S2 AND S4
S9 308 S1 AND S3
S10 1 S5 AND S1

7/3,K/1 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

0016403914 E.I. COMPENDEX No: 2005118999579
Bark-band residual noise model for parametric audio coding
Wang, Jing; Jin, Yan-Wei; Zhao, Sheng-Hui; Kuang, Jing-Ming
Corresp. Author/Affil: Wang, J.: Sch. of Info. Sci. and Technol., Beijing Inst. of Technol., Beijing 100081, China
Corresp. Author email: wangjing@bit.edu.cn
Journal of Beijing Institute of Technology (English Edition) (J Beijing Inst Technol Engl Ed) (China) 2004, 13/SUPPL. (1-6)
Publication Date: 20041201
Publisher: Beijing Institute of Technology
CODEN: JBITE ISSN: 1004-0579
Document Type: Article; Journal Record Type: Abstract
Treatment: A; (Applications)
Language: English Summary Language: English
Number of References: 11

Bark-band residual noise model for parametric audio coding
...integrated with the human hearing mechanism is proposed to efficiently complement sinusoidal model in parametric audio coding . The time - varying spectrum of the residual noise is retrieved by Bark-scale piecewise constant magnitude estimates along with random phases. In the proposed noise model, Bark bands information is obtained by short-time FFT method and window overlap-add technique is exploited to remove boundary discontinuities. SVQ is also...

...noise model, better synthesis audio quality can be achieved compared with the original sinusoidal modeling audio codec .
Descriptors: Audio systems; Codes (symbols); Cosine transforms; Fast Fourier transforms; Impedance matching (acoustic); Parametric devices; Spectrum analysis; Vector quantization...
Identifiers: Bark band; Equivalent rectangular band (ERB); Listening tests; Parametric audio coding ; Residual noise model; Sinusoidal model; Split vector quantization (SVQ); Synthesis audio quality; Window overlap add...

7/3,K/2 (Item 1 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

1672937 H.W. WILSON RECORD NUMBER: BAST94067443
High-quality audio transform coding at 64 kbps
Mahieux, Yannick; Petit, Jean Pierre
IEEE Transactions on Communications v. 42 (Nov. '94) p. 3010-19
DOCUMENT TYPE: Feature Article ISSN: 0090-6778

High-quality audio transform coding at 64 kbps

ABSTRACT: A transform coding algorithm for high-quality audio coding at a bit rate of 64 kbps per monophonic channel is presented. The algorithm allows...

...of signal processing techniques, including pre-echo reduction by adaptive filtering, fast algorithm calculations, and time /frequency transformations is presented. The modified discrete cosine transform is used, and a fast algorithm to compute it is developed to facilitate real-time...

DESCRIPTORS: ... Audio coding ; ;

7/3,K/3 (Item 1 from file: 60)
DIALOG(R)File 60:ANTE: Abstracts in New Tech & Engineer
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0001751673 IP ACCESSION NO: 20081548406
Electronic stethoscope system and method

Eisenberg, Lawrence; Eisenberg, Michael

, USA
PUBLISHER URL:
http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netahtml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=4792145.PN.&OS=pn/4792145&RS=PN/4792145

DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English
FILE SEGMENT: ANTE: Abstracts in New Technologies and Engineering

ABSTRACT:
... comprising frequency components having frequency, phase, and amplitude elements by performing a fast Fourier transform (FFT) operation on the input signal. The frequency components of this transformed signal are translated and the resulting translated frequency spectrum signal is transformed into a time varying output signal by performing an inverse FFT operation on the translated frequency spectrum signal. When heart pulses or similar periodic waveforms are...

DESCRIPTORS: Frequency spectrum; Sound ; Compressing ; Pulse rate; Microprocessors; Compression tests; Translating; Fourier transforms; Stethoscopes; Waveforms; Electronics; Ear; Transforms; Phase transformations; Heart
?

10/3,K/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC

05441425 INSPEC Abstract Number: B9308-6450B-001, C9308-5260-013
Title: A low cost adaptive transform decoder implementation for high-quality audio
Author(s): Davidson, G. ; Anderson, W.; Lovrich, A.
Author Affiliation: Dolby Labs. Inc., San Francisco, CA, USA
Conference Title: ICASSP-92: 1992 IEEE International Conference on Acoustics, Speech and Signal Processing (Cat. No.92CH3103-9) p.193-6 vol.2
Publisher: IEEE, New York, NY, USA
Publication Date: 1992 Country of Publication: USA 5 vol. 3219 pp.
ISBN: 0 7803 0532 9
U.S. Copyright Clearance Center Code: 0 7803 0532 9/92/$3.00
Conference Sponsor: IEEE
Conference Date: 23-26 March 1992 Conference Location: San Francisco, CA, USA
Language: English
Subfile: B C

Author(s): Davidson, G. ; Anderson, W.; Lovrich, A.
...Abstract: 16-b TMS320C5x DSP. This is achieved by modifying a conventional inverse fast Fourier transform (FFT) computation, using a form of mixed-precision arithmetic, and exploiting the short instruction cycle time...

Patent Files:-
File 344:Chinese Patents Abs Jan 1985-2006/Jan
(c) 2006 European Patent Office
File 347:JAPIO Dec 1976-2007/Dec(Updated 080328)
(c) 2008 JPO & JAPIO
File 350:Derwent WPIX 1963-2008/UD=200872
(c) 2008 Thomson Reuters

Set Items Description
S1 6510 FFT OR FOURIER()(FREQUENC??? OR FREQ??)()TRANSFORM?????? OR MDCT OR MODIFIED()DISCRETE()COSINE()TRANSFORM??????
S2 82178 (FREQUENC??? OR FREQ??? OR SPECTR??? OR SPECTRALCONTENT??)-(5N)(TIME OR DURATION?? OR PERIOD?? OR TIMEFRAME??)
S3 10111 (CHANG??? OR ALTER????? OR VARY??? OR VARIES OR VARIED OR -ADJUST???? OR CORRECT???? OR AMEND??? OR MODIF???????)(5N)S2
S4 41276 (AUDIO OR SPEECH?? OR ACOUSTIC?? OR VOICE?? OR SOUND??)(5N-)(COD??? OR ENCOD??? OR COMPRES?????)
S5 137 AU=(VINTON M? OR VINTON, M? OR DAVIDSON G? OR DAVIDSON, G?)
S6 9 S1 AND S3 AND S4
S7 123 S1 AND S3
S8 4 S7 AND (OVERTIME OR OVER()(TIME?? OR PERIOD??) OR OVERPERI-OD??)
S9 4 S8 NOT S6
S10 4 S5 AND S1
S11 4 S10 AND S2
S12 4 S10 AND S4
S13 3 S12 NOT (S8 OR S6)

6/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0016843319 - Drawing available
WPI ACC NO: 2007-558381/200754
XRPX Acc No: N2007-430431
Discrete window e.g. kaiser window, e.g. switching function, establishing method, involves employing envelope to perform transform between time domain and frequency domain using modified discrete cosine transform
Patent Assignee: FERREIRA A J S (FERR-I); SINHA D (SINH-I)
Inventor: FERREIRA A J S; SINHA D
Patent Family (1 patents, 1 countries)
Patent Application
Number Kind Date Number Kind Date Update
US 20070118361 A1 20070524 US 2005724850 P 20051007 200754 B
US 2006544894 A 20061006

Priority Applications (no., kind, date): US 2005724850 P 20051007; US 2006544894 A 20061006

Patent Details
Number Kind Lan Pg Dwg Filing Notes
US 20070118361 A1 EN 14 11 Related to Provisional US 2005724850
...kaiser window, e.g. switching function, establishing method, involves employing envelope to perform transform between time domain and frequency domain using modified discrete cosine transform

Alerting Abstract ...from samples of the envelope. The envelope is employed to perform a transform between a time domain and a frequency domain using one of a modified discrete cosine transform (MDCT) analysis or discrete fourier transform (DFT) analysis. The envelope is employed to perform a cross...
...function such as application as switching function, and equalization function, that is utilized in an audio coding e.g. PAC , MP3 , audio codec three (AC-3) , and AAC , and spectrum analysis...

...ADVANTAGE - The envelope is employed to perform a transform between a time domain and a frequency domain using one of the modified discrete cosine transform (MDCT) analysis or discrete furrier transform (DFT) analysis, thus efficiently establishing the discrete window function which
...

...10 Modified discrete cosine transform (MDCT) analysis

Original Publication Data by Authority

Argentina

6/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0016751260 - Drawing available

WPI ACC NO: 2007-466331/200745
XRPX Acc No: N2007-353726
Audio input signal encoding method, involves using hierarchical filterbank to decompose input signal into multi-resolution time/frequency representation, and extracting tonal and residual components from representation
Patent Assignee: BEATON R J (BEAT-I); DTS BVI LTD (DTSB-N); SHMUNK D V (SHMU-I); DTS BVI AZ RES LTD (DTSB-N)
Inventor: BEATON R J; SHMUNK D V
Patent Family (9 patents, 114 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20070063877	A1	20070322	US 2005691558	P	20050617	200745 B
			US 2006452001	A	20060612	
WO 2007074401	A2	20070705	WO 2006IB3986	A	20060616	200746 E
WO 2007074401	A3	20071129	WO 2006IB3986	A	20060616	200780 E
IN 200701960	P3	20080118	IN 2007MN1960	A	20071121	200816 E
			WO 2006IB3986	A	20060616	
EP 1891740	A2	20080227	EP 2006848793	A	20060616	200817 E
			WO 2006IB3986	A	20060616	
AU 2006332046	A1	20070705	AU 2006332046	A	20060616	200827 E
CN 101199121	A	20080611	CN 200680021765	A	20060616	200855 E
			WO 2006IB3986	A	20060616	
CA 2608030	A1	20070705	CA 2608030	A	20060616	200864 E
			WO 2006IB3986	A	20060616	
			CA 2608030	A	20071109	
KR 2008025377	A	20080320	WO 2006IB3986	A	20060616	200864 E
			KR 2007730321	A	20071226	

Priority Applications (no., kind, date): US 2005691558 P 20050617; US 2006452001 A 20060612

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20070063877	A1	EN	40	22	Related to Provisional US 2005691558
WO 2007074401	A2	EN			

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Regional Designated States,Original: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

WO 2007074401 A3 EN

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Regional Designated States,Original: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

IN 200701960	P3	EN		PCT Application	WO 2006IB3986
EP 1891740	A2	EN		PCT Application	WO 2006IB3986

Based on OPI patent WO 2007074401

Regional Designated States,Original: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

AU 2006332046 A1 EN Based on OPI patent WO 2007074401

CN 101199121 A ZH PCT Application WO 2006IB3986
Based on OPI patent WO 2007074401

CA 2608030 A1 EN PCT Application WO 2006IB3986
CA 2608030
Based on OPI patent WO 2007074401

KR 2008025377 A KO PCT Application WO 2006IB3986
Based on OPI patent WO 2007074401

Audio input signal encoding method, involves using hierarchical filterbank to decompose input signal into multi-resolution time/frequency representation...

Original Titles:
Scalable compressed audio bit stream and codec using hierarchical filter bank and multi-channel joint coding...

...SCALABLE COMPRESSED AUDIO BIT STREAM AND CODEC USING A HIERARCHICAL FILTERBANK AND MULTICHANNEL JOINT CODING...

...TRAIN DE BITS AUDIO A COMPRESSION ECHELONNEE; CODEUR /DECODEUR UTILISANT UN BANC DE FILTRE HIERARCHIQUE ET CODAGE CONJOINT MULTICANAL...

...SCALABLE COMPRESSED AUDIO BIT STREAM AND CODEC USING A HIERARCHICAL FILTERBANK AND MULTICHANNEL JOINT CODING...

...Scalable compressed audio bit stream and codec using a hierarchical filterbank and multichannel joint coding...

...SCALABLE COMPRESSED AUDIO BIT STREAM AND CODEC USING A HIERARCHICAL FILTERBANK AND MULTICHANNEL JOINT CODING...

...TRAIN DE BITS AUDIO A COMPRESSION ECHELONNEE; CODEUR /DECODEUR UTILISANT UN BANC DE FILTRE HIERARCHIQUE ET CODAGE CONJOINT MULTICANAL

Alerting Abstract ...relative contribution to decoded signal quality. The components are quantized and encoded using joint channel coding (JCC) extended to multichannel audio . ...USE - Used for encoding an audio input signal...

...DESCRIPTION OF DRAWINGS - The drawing shows a block representation of a method for encoding an audio input signal...

Original Publication Data by Authority

Argentina

Assignee name & address:
Original Abstracts:
This invention claims a method for compressing audio input signals to form a master bit stream that can be scaled to form a...

...masking function or different psychoacoustic criteria. The selected tonal components are suitably encoded using differential coding extended

to multi-channel audio . The time-sample and scale factor components that make up the residual components are encoded using joint channel coding (JCC) extended to multi-channel audio . A decoder uses an inverse hierarchical filter bank to reconstruct the audio signals from the...

...A method for compressing audio input signals to form a master bit stream that can be scaled to form a...

...masking function or different psychoacoustic criteria. The selected tonal components are suitably encoded using differential coding extended to multichannel audio . The time-sample and scale factor components that make up the residual components are encoded using joint channel coding (JCC) extended to multichannel audio . A decoder uses an inverse hierarchical filterbank to reconstruct the audio signals from the tonal...

...A method for compressing audio input signals to form a master bit stream that can be scaled to form a...

...masking function or different psychoacoustic criteria. The selected tonal components are suitably encoded using differential coding extended to multichannel audio . The time-sample and scale factor components that make up the residual components are encoded using joint channel coding (JCC) extended to multichannel audio . A decoder uses an inverse hierarchical filterbank to reconstruct the audio signals from the tonal...

...A method for compressing audio input signals to form a master bit stream that can be scaled to form a...

...masking function or different psychoacoustic criteria. The selected tonal components are suitably encoded using differential coding extended to multichannel audio . The time-sample and scale factor components that make up the residual components are encoded using joint channel coding (JCC) extended to multichannel audio . A decoder uses an inverse hierarchical filterbank to reconstruct the audio signals from the tonal...

...L'invention concerne un procede de compression de signaux audio d'entree pour former un train de bits maitre qui peut etre echelonne pour obtenir...

...un critere psychoacoustique different. Les composantes tonales selectionnees sont codees de maniere appropriee par un codage differentiel a extension multicanal audio . Les composantes d'echantillonnage temporel et les composantes facteur d'echelle qui constituent les composantes...

Claims:

...CLAIM 8] The input signal method of encryption including magnification components (2118, 2119) modified as the frequency resolution and/or the time scale of claim 1, wherein the residual element is the time - sample component (2117), and...which is consecutively more the input audio signal low as to the scalable bit stream encoder in which the input audio signal is ciphered and forming the scalable bit stream the analysis (2108), and residual element...the scaled bit stream of claim 25, wherein the input signal is the multi-channel audio signal; and the residual encoder is the channels of the , residual signal determined with the standard of consciousness and coding...CLAIM 39] As to the decoder for reconstructing the time - domain output audio signal from the encoding bit stream, the

quantization remaining time - sample component representing the time - domain residual formed from...CLAIM 42] The input method for signal filtering of claim 41, wherein conversion is the MDCT conversion...

6/3,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 Thomson Reuters. All rts. reserv.

0016720621 - Drawing available
WPI ACC NO: 2007-435698/200742
XRPX Acc No: N2007-328237
Audio signal watermarking method involves converting modified version of current block of audio signal from frequency to time domain, such that corresponding section of watermark audio signal is output
Patent Assignee: DEUT THOMSON-BRANDT GMBH (THOH); THOMSON LICENSING (CSFC)
Inventor: BAUM P G; VOESSING W; BAUM P
Patent Family (5 patents, 117 countries)
Patent Application
Number Kind Date Number Kind Date Update
EP 1764780 A1 20070321 EP 200590261 A 20050916 200742 B
WO 2007031423 A1 20070322 WO 2006EP65973 A 20060904 200742 E
EP 1924989 A1 20080528 EP 2006793191 A 20060904 200837 E
WO 2006EP65973 A 20060904
CN 101263552 A 20080910 CN 200680033872 A 20060904 200864 E
WO 2006EP65973 A 20060904
IN 200801395 P1 20080801 WO 2006EP65973 A 20060904 200867 E
IN 2008DN1395 A 20080218
Priority Applications (no., kind, date): EP 200590261 A 20050916

Patent Details
Number Kind Lan Pg Dwg Filing Notes
EP 1764780 A1 EN 13 8
Regional Designated States,Original: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU
WO 2007031423 A1 EN
National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HN HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MY MZ NA NG NI NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SV SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW
Regional Designated States,Original: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
EP 1924989 A1 EN PCT Application WO 2006EP65973
Based on OPI patent WO 2007031423
Regional Designated States,Original: DE FR GB
CN 101263552 A ZH PCT Application WO 2006EP65973
Based on OPI patent WO 2007031423
IN 200801395 P1 EN PCT Application WO 2006EP65973
Alerting Abstract ...DESCRIPTION OF DRAWINGS - The figure shows a block diagram of the audio signal watermark encoder and decoder.

Original Publication Data by Authority

Argentina

Assignee name & address:
Claims:
...by a pre-set maximum amount are determined by psycho-acoustic related calculations (PSYA, PHLC); frequency -to- time domain converting (IFTR) the modified version of said current block of said audio signal; outputting the corresponding section of the...

...amount are determined by psycho- acoustic related calculations (PSYA, PHLC); apparatus (IFTR) being adapted for frequency -to- time domain converting the modified version of said current block of said audio signal, and for outputting the corresponding section...

...device according to claim 2 or 4, wherein said time-to-frequency conversion is an FFT and said frequency-to-time domain conversion is an inverse FFT ...by a pre-determined maximum amount are determined by psycho-acoustic related calculations (PSYA, PHLC);- frequency -to- time domain converting (IFTR) the modified version of said current block of said audio signal;- outputting the corresponding section of the...

6/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0016491068 - Drawing available
WPI ACC NO: 2007-207295/200721
XRPX Acc No: N2007-153130
Audio encoding apparatus for e.g. mobile phone has bit-stream multiplexing unit which outputs bit-stream by multiplexing detected pitch period and encoded frequency parameter
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (MATU)
Inventor: TANAKA N
Patent Family (3 patents, 113 countries)
Patent Application
Number Kind Date Number Kind Date Update
WO 2006137425 A1 20061228 WO 2006JP312390 A 20060621 200721 B
EP 1895511 A1 20080305 EP 2006767049 A 20060621 200819 E
WO 2006JP312390 A 20060621
CN 101203907 A 20080618 CN 200680022437 A 20060621 200855 E
WO 2006JP312390 A 20060621

Priority Applications (no., kind, date): JP 2005184086 A 20050623

Patent Details
Number Kind Lan Pg Dwg Filing Notes
WO 2006137425 A1 JA 65 20
National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HN HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW
Regional Designated States,Original: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

EP 1895511 A1 EN PCT Application WO 2006JP312390
Based on OPI patent WO 2006137425
Regional Designated States,Original: DE FR GB
CN 101203907 A ZH PCT Application WO 2006JP312390
Based on OPI patent WO 2006137425

Audio encoding apparatus for e.g. mobile phone has bit-stream multiplexing unit which outputs bit-stream...

Original Titles:
Audio encoding apparatus, audio decoding apparatus and audio encoded information transmitting apparatus...

... AUDIO ENCODING APPARATUS, AUDIO DECODING APPARATUS AND AUDIO ENCODING INFORMATION TRANSMITTING APPARATUS...

...APPAREIL DE CODAGE AUDIO , APPAREIL DE DECODAGE AUDIO ET APPAREIL DE TRANSMISSION D'INFORMATIONS DE CODAGE...

... AUDIO ENCODING APPARATUS, AUDIO DECODING APPARATUS AND AUDIO ENCODING INFORMATION TRANSMITTING APPARATUS...

...APPAREIL DE CODAGE AUDIO , APPAREIL DE DECODAGE AUDIO ET APPAREIL DE TRANSMISSION D'INFORMATIONS DE CODAGE

Alerting Abstract ...pitch period. A deforming unit (103) deforms the framed audio signal waveform according to the time /frequency conversion frame length. A modified discrete cosine transform (MDCT) unit (104) converts the deformed framed audio signal waveform into a frequency parameter. A MDCT coefficient encoding unit (105) encodes the frequency parameter. A bit-stream multiplexing unit (106) outputs...
... audio decoder; audio encoding information transmission apparatus; audio encoding method; audio encoding program; audio decoding method; and audio decoding program...

...DESCRIPTION OF DRAWINGS - The figure shows a block diagram of the audio encoding apparatus. (Drawing includes non-English language text...

...104 MDCT unit...

...105 MDCT coefficient encoding unit

Original Publication Data by Authority

Argentina

Assignee name & address:
Original Abstracts:
...and reduces the processing amount of a decoding apparatus. The encoding apparatus (10) has an MDCT part (104) for converting an input audio signal to a frequency parameter by unit of a predetermined time-frequency conversion frame length and an MDCT coefficient encoding part (105) for encoding the frequency parameter, said encoding apparatus (10) comprises a
...

...period, and outputs the audio signal, the waveform of which has been

deformed, to the MDCT part (104); and a bit stream multiplexing part (106) that multiplexes the pitch period and the frequency parameter encoded by the MDCT coefficient encoding part (105) and outputs the resultant as a bit stream...

...and reduces the processing amount in an encoding apparatus.An encoding apparatus (10) including: an MDCT unit (104) which transforms an audio signal inputted into a frequency parameter, for every predetermined time-frequency transformation frame length; and an MDCT coefficient encoding unit (105) which encodes the frequency parameter, the audio encoding apparatus including: a pitch cycle detection unit (102) which detects a pitch cycle of the...

...the time-frequency transformation frame length, and outputs the waveform-modified audio signal to the MDCT unit (104); and a multiplex unit (106) which multiplexes the frequency parameter encoded by MDCT coefficient encoding unit (105) and the pitch cycle, and outputs the multiplexed result as a...
...reduce the processing amount at a decoding apparatus. An encoding apparatus (10), which has an MDCT part (104) for converting an input audio signal to a frequency parameter by unit of a predetermined time/frequency conversion frame length and an MDCT coefficient encoding part (105) for encoding the frequency parameter, comprises a pitch detecting part (102...

...length, and outputs the audio signal, the waveform of which has been deformed, to the MDCT part (104); and a bitstream multiplexing part (106) that multiplexes the pitch period and the frequency parameter encoded by the MDCT coefficient encoding part (105) and outputs the resultant as a bitstream...

...de traitement par un appareil de decodage. Un appareil de codage (10) possedant une partie MDCT (104) pour convertir un signal audio d'entree en un parametre de frequence par unite...

...longueur de trame de conversion de duree/frequence predeterminee et une partie codage de coefficient MDCT (105) pour coder le parametre de frequence comprend une partie detection de hauteur (102) detectant...

...sort le signal audio dont la forme d'onde a ete deformee vers la partie MDCT (104); et une partie multiplexage de flux binaire (106) qui multiplexe la periode de hauteur et le parametre frequence codes par la partie codage de coefficient MDCT (105) et sort la resultante en tant que flux binaire.
Claims:
An audio encoding apparatus including: a time-frequency transformation unit which transforms an audio signal inputted into a frequency parameter, for every predetermined time-frequency transformation frame length; and an encoding unit which encodes the frequency parameter, said audio encoding apparatus comprising: a pitch cycle detection unit operable to detect a pitch cycle of the...

...cycle, in conformance with the time-frequency transformation frame length, and to output the waveform- modified audio signal to said time - frequency transformation unit; and a multiplex unit operable to multiplex the frequency parameter encoded by said...

...for the pitch cycle of the adjacent encoded frame, so as to generate the waveform- modified audio signal of the time - frequency transformation frame length...

...An audio encoding apparatus including: a time-frequency transformation unit which transforms an audio signal inputted into a frequency parameter, for every predetermined time-frequency transformation frame length; and an encoding unit which encodes the frequency parameter, said audio encoding apparatus comprising: a pitch cycle detection unit operable to detect a pitch cycle of the...

...cycle, in conformance with the time-frequency transformation frame length, and to output the waveform- modified audio signal to said time - frequency transformation unit; anda multiplex unit operable to multiplex the frequency parameter encoded by said...

6/3,K/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 Thomson Reuters. All rts. reserv.

0016411544 - Drawing available
WPI ACC NO: 2007-127716/200713
XRPX Acc No: N2007-090454
Electronic-watermark embedding method involves operating predetermined signal value extracted from audio signals in frequency domain and adding inverse coefficient to adjoining digital audio signal frames
Patent Assignee: DAINI DENDEN KK (DAIN-N)
Inventor: SAKAZAWA S; TAKAGI K; TAKISHIMA Y
Patent Family (1 patents, 1 countries)
Patent Application
Number Kind Date Number Kind Date Update
JP 2006330256 A 20061207 JP 2005152265 A 20050525 200713 B

Priority Applications (no., kind, date): JP 2005152265 A 20050525

Patent Details
Number Kind Lan Pg Dwg Filing Notes
JP 2006330256 A JA 7 4

Alerting Abstract ...NOVELTY - A digital audio signal frame in time domain is converted into frequency domain by modified discrete cosine transform (MDCT). The electronic watermark information is embedded on operating predetermined signal value extracted from signals in...
...embedding electronic-watermark with respect to audio signals e.g. MPEG Layer III (MP3), Advanced Audio Coding (AAC) signals...

Original Publication Data by Authority

Argentina

^6/3,K/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 Thomson Reuters. All rts. reserv.

0009072293 - Drawing available
WPI ACC NO: 1998-430429/199837
XRPX Acc No: N1998-336208
Audio -electrical signal coding method - uses backward adaptive prediction to code audio signal from previously determined reconstructed spectral values of stream of spectral components from audio signal time frame
Patent Assignee: NOKIA MOBILE PHONES LTD (OYNO)
Inventor: YIN L
Patent Family (11 patents, 79 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
GB 2322776	A	19980902	GB 1998611	A	19980206	199837 B
DE 19804584	A1	19980813	DE 19804584	A	19980205	199838 E
FR 2759510	A1	19980814	FR 1981430	A	19980206	199838 E
WO 1998035447	A2	19980813	WO 1998FI29	A	19980115	199838 E
SE 199800338	A	19980808	SE 1998338	A	19980205	199844 E
FI 199700553	A	19980808	FI 1997553	A	19970207	199845 E
JP 10260699	A	19980929	JP 199824615	A	19980205	199849 E
AU 199856648	A	19980826	AU 199856648	A	19980115	199902 E
CN 1199959	A	19981125	CN 1998107058	A	19980206	199915 E
GB 2322776	B	20020313			200226 E	
CN 1202513	C	20050518	CN 1998107058	A	19980206	200641 E

Priority Applications (no., kind, date): FI 1997553 A 19970207

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
GB 2322776	A	EN	18	3	
DE 19804584	A1	DE	8		
WO 1998035447	A2	EN			

National Designated States,Original: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW
Regional Designated States,Original: AT BE CH DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW
SE 199800338 A SV
JP 10260699 A JA 8
AU 199856648 A EN Based on OPI patent WO 1998035447

Audio -electrical signal coding method...
...uses backward adaptive prediction to code audio signal from previously determined reconstructed spectral values of stream of spectral components from audio signal...

Original Titles:
...METHOD AND DEVICE FOR SPEECH ENCODING
...

... AUDIO CODING METHOD AND APPARATUS

Original Publication Data by Authority

Argentina

Assignee name & address:
Original Abstracts:
A method of coding an audio electrical signal using backward adaptive prediction. A first time frame of the audio electrical signal to be coded is received and transformed into the frequency domain using a modified discrete cosine transform (MDCT). The resulting frequency spectrum has 1024 spectral components. Subsequent time frames of the audio electrical signal are then received and the MDCT is applied to each in turn so as to generate a stream of spectral data values for each spectral...
Claims:

^ 6/3,K/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0006602652 - Drawing available
WPI ACC NO: 1993-038161/199305
Related WPI Acc No: 1997-529330
XRPX Acc No: N1993-029217
Digital encoder and compressor for PCM audio signals - reduces number of bits required to represent audio signal
Patent Assignee: SONY CORP (SONY)
Inventor: AKAGIRI K
Patent Family (17 patents, 8 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 525809	A2	19930203	EP 1992113130	A	19920731	199305 B
JP 5037394	A	19930212	JP 1991216217	A	19910802	199311 E
JP 5037396	A	19930212	JP 1991216216	A	19910802	199311 E
AU 199220716	A	19930204	AU 199220716	A	19920731	199312 E
JP 5114863	A	19930507	JP 1991271774	A	19910827	199323 E
CA 2075156	A	19930203	CA 2075156	A	19920731	199331 E
EP 525809	A3	19930818	EP 1992113130	A	19920731	199508 E
AU 665200	B	19951221	AU 199220716	A	19920731	199607 E
US 5621856	A	19970415	US 1992924298	A	19920803	199721 E
			US 1994272872	A	19940708	
			US 1995465340	A	19950605	
US 5664056	A	19970902	US 1992924298	A	19920803	199741 E
			US 1994272872	A	19940708	
JP 3134383	B2	20010213	JP 1991216216	A	19910802	200111 E
JP 3134384	B2	20010213	JP 1991216217	A	19910802	200111 E
EP 525809	B1	20011205	EP 1992113130	A	19920731	200203 E
			EP 1997108482	A	19920731	
DE 69232251	E	20020117	DE 69232251	A	19920731	200213 E
			EP 1992113130	A	19920731	
ES 2164640	T3	20020301	EP 1992113130	A	19920731	200229 E
KR 340368	B	20021123	KR 199213475	A	19920728	200333 E
KR 351772	B	20021216	KR 199213473	A	19920728	200336 E

Priority Applications (no., kind, date): JP 1991216216 A 19910802; JP 1991216217 A 19910802; JP 1991271774 A 19910827

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 525809	A2	EN	26	15	
Regional Designated States,Original: AT DE ES FR GB					
CA 2075156	A	EN			
EP 525809	A3	EN			
AU 665200	B	EN			Previously issued patent AU 9220716
US 5621856	A	EN	21	15	Continuation of application US 1992924298
					Division of application US 1994272872
US 5664056	A	EN	21	15	Continuation of application US 1992924298
JP 3134383	B2	JA	8		Previously issued patent JP 05037396
JP 3134384	B2	JA	9		Previously issued patent JP 05037394
EP 525809	B1	EN			Related to application EP 1997108482
					Related to patent EP 805564
Regional Designated States,Original: AT DE ES FR GB					
DE 69232251	E	DE			Application EP 1992113130
					Based on OPI patent EP 525809
ES 2164640	T3	ES			Application EP 1992113130
					Based on OPI patent EP 525809
KR 340368	B	KO			Previously issued patent KR 93005381
KR 351772	B	KO			Previously issued patent KR 93005379

Digital encoder and compressor for PCM audio signals...

Alerting Abstract ...The Pulse Code Modulated audio signal (10) is fed via two Quadrature Mirror Filters (11, 12) to split the signal...

...band signal is then fed to a block determining circuit (19, 20, 21) and to Modified Discrete Cosine Transform circuit (13, 14, 15...

Original Publication Data by Authority

Argentina

Assignee name & address:

Original Abstracts:

...signal is divided into three frequency ranges. The digital signal in each of the three frequency ranges is divided in time into frames, the time duration of which may be adaptively varied . The frames are orthogonally transformed into spectral coefficients, which are grouped into critical bands. The...

...analog signal is divided into three frequency ranges. The digital signal in each of the three frequency ranges is divided in time into frames, and subdivided into blocks, the time duration of which may be adaptively varied . The blocks are orthogonally transformed into spectral coefficients, which are grouped into critical bands. The total number of bits available for quantizing the spectral...

...the analog signal is divided into frequency ranges. The digital signal in each of the frequency ranges is divided in time into blocks, the time duration of which may be adaptively varied . The blocks are orthogonally transformed into spectral coefficients , which are grouped into critical bands . The total number of bits available for quantizing the spectral coefficients is allocated among the...
Claims:
...input signal to provide a compressed digital output signal, the digital input signal representing an audio information signal, the compressed digital output signal, after expansion, conversion to an analog signal and reproduction of the analog...

...means for orthogonally transforming each block to provide a plurality of spectral coefficients;means for grouping the plurality of spectral coefficients into critical bands;noise factor setting means for setting a noise shaping factor in...

6/3,K/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0006188932 - Drawing available
WPI ACC NO: 1992-433934/199252
Related WPI Acc No: 1990-261081; 1996-058067; 1991-340084; 1990-261110; 1998-297391
XRPX Acc No: N1992-331140
Digital analysis and synthesis filter bank for encoding and decoding information - allows length of filter bank used to implement critically-sampled analysis and synthesis filter banks to be adaptively selected
Patent Assignee: DOLBY LAB LICENSING CORP (DOLB)
Inventor: ANTILL M B; DAVIDSON G A
Patent Family (12 patents, 21 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 1992022137	A1	19921210	WO 1992US4767	A	19920605	199252 B
AU 199221627	A	19930108	AU 199221627	A	19920605	199315 E
			WO 1992US4767	A	19920605	
US 5297236	A	19940322	US 1989303714	A	19890127	199411 E
			US 1989458894	A	19891229	
			US 1990508809	A	19900412	
			US 1991710805	A	19910605	
EP 587733	A1	19940323	EP 1992912812	A	19920605	199412 E
			WO 1992US4767	A	19920605	
JP 6508731	W	19940929	WO 1992US4767	A	19920605	199443 E
			JP 1993500680	A	19920605	
AU 655053	B	19941201	AU 199221627	A	19920605	199504 E
EP 587733	B1	19970813	EP 1992912812	A	19920605	199737 E
			WO 1992US4767	A	19920605	
DE 69221616	E	19970918	DE 69221616	A	19920605	199743 E
			EP 1992912812	A	19920605	
			WO 1992US4767	A	19920605	
SG 47709	A1	19980417	SG 19963970	A	19920605	199826 E
KR 253136	B1	20000415	WO 1992US4767	A	19920605	200124 E
			KR 1993703694	A	19931130	

JP 3203250 B2 20010827 WO 1992US4767 A 19920605 200152 E
JP 1993500680 A 19920605
CA 2103051 C 20030506 CA 2103051 A 19920605 200333 E
WO 1992US4767 A 19920605

Priority Applications (no., kind, date): US 1989303714 A 19890127; US 1989458894 A 19891229; US 1990508809 A 19900412; US 1991710805 A 19910605
Patent Details
Number Kind Lan Pg Dwg Filing Notes
WO 1992022137 A1 EN 49 10
National Designated States,Original: AU BR CA JP KR
Regional Designated States,Original: AT BE CH DE DK ES FR GB GR IT LU MC NL SE
AU 199221627 A EN PCT Application WO 1992US4767
Based on OPI patent WO 1992022137
US 5297236 A EN 29 10 C-I-P of application US 1989303714
C-I-P of application US 1989458894
C-I-P of application US 1990508809
C-I-P of patent US 5109417
EP 587733 A1 EN 2 1 PCT Application WO 1992US4767
Based on OPI patent WO 1992022137
Regional Designated States,Original: DE DK FR GB NL
JP 6508731 W JA 1 1 PCT Application WO 1992US4767
Based on OPI patent WO 1992022137
AU 655053 B EN Previously issued patent AU 9221627

Based on OPI patent WO 1992022137
EP 587733 B1 EN 55 10 PCT Application WO 1992US4767
Based on OPI patent WO 1992022137
Regional Designated States,Original: DE DK FR GB NL
DE 69221616 E DE Application EP 1992912812
PCT Application WO 1992US4767
Based on OPI patent EP 587733
Based on OPI patent WO 1992022137
SG 47709 A1 EN
KR 253136 B1 KO PCT Application WO 1992US4767
JP 3203250 B2 JA 30 PCT Application WO 1992US4767
Previously issued patent JP 06508731

Based on OPI patent WO 1992022137
CA 2103051 C EN PCT Application WO 1992US4767
Based on OPI patent WO 1992022137

Alerting Abstract ...The coefficients C(k) and S(k) correspond to Modified Discrete Cosine Transform coefficients and Modified Discrete Sine Transform coefficients...

...USE/ADVANTAGE - Sub-band transform audio encoder /decoder. Requires lower processing requirements of imposes lower processing delays or both.

Equivalent Alerting Abstract ...Time-Domain Aliasing Cancellation transform applied to the sample blocks. The spectral coeffts. corresp. to Modified Discrete Cosine Transform coeffts. and Modified Discrete Sine Transform coeffts...

Original Publication Data by Authority

Argentina

Assignee name & address:
Claims:
...The coefficients C(k) and S(k) correspond to Modified Discrete Cosine Transform coefficients and Modified Discrete Sine Transform coefficients...

...an Evenly-Stacked Time-Domain Aliasing Cancellation transform applied to said time-domain signal sample blocks . wherein said spectral coefficients C(k) and S(k) substantially correspond to Modified Discrete Cosine Transform coefficients and Modified Discrete Sine Transform coefficients, respectively, characterized in that said analysis means comprises forward pre-transform means (106) for generating modified-sample blocks comprising 1...

...signal sample blocks, wherein said spectral coefficients C(k) and S(k) substantially correspond to Modified Discrete Cosine Transform coefficients and Modified Discrete Sine Transform coefficients, respectively, comprising forward pre-transform means for generating modified - sample blocks comprising 1/2N modified samples by combining one or more pairs of analysis-window weighted...

0004656857 - Drawing available
WPI ACC NO: 1989-015436/198902
Electronic sound enhancing stethoscope - has detection of inaudible sound frequencies with time varying compression by transformations giving audible output
Patent Assignee: SOUND ENHANCEMENT (SOUN-N)
Inventor: EISENBERG L; EISENBERG M
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 4792145	A	19881220	US 1985795059	A	19851105	198902 B
			US 1986914027	A	19861006	

Priority Applications (no., kind, date): US 1986914027 A 19861006

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 4792145	A	EN	16	7	

...has detection of inaudible sound frequencies with time varying compression by transformations giving audible output

Alerting Abstract ...consisting of components having frequency, phase, and amplitude elements by performing a fast Fourier transform (FFT) operations...

...The frequency components of this signal are translated and the resulting frequency spectrum signal is transformed into a time varying output signal by peforming an inverse FFT operation on the translated frequency spectrum signal. When periodic waveforms are monitored, the rate of...

Original Publication Data by Authority

Argentina

Assignee name & address:
Original Abstracts:
...comprising frequency components having frequency, phase, and amplitude elements by performing a fast Fourier transform (FFT) operation on the input signal. The frequency components of this transformed signal are translated and the resulting translated frequency spectrum signal is transformed into a time varying output signal by performing an inverse FFT operation on the translated frequency spectrum signal. When heart pulses or similar periodic waveforms are monitored, the pulse rate...

...maintained in the output signal. Alternatively, the time varying signal is compressed in the time scale and then transformed into audible sound , while maintaining the original pulse rate in the output signal, thereby resulting in the same...
Claims:
?

9/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0016658674 - Drawing available
WPI ACC NO: 2007-373762/200735
XRPX Acc No: N2007-278844
Frame synchronization performing method for use in ultra-wideband orthogonal frequency division multiplexing communication system, involves correlating information of pairs of symbols to obtain series of correlation results
Patent Assignee: AYTUR T (AYTU-I); BRINK S T (BRIN-I); MAHADEVAPPA R H (MAHA-I); WIONICS RES (WION-N); YAN R (YANR-I)
Inventor: AYTUR T; BRINK S T; MAHADEVAPPA R H; TEN BRINK S; YAN R
Patent Family (4 patents, 114 countries)

Patent Number	Kind	Application Date	Number	Kind	Date	Update
WO 2007022362	A2	20070222	WO 2006US32159	A	20060816	200735 B
US 20070064744	A1	20070322	US 2005709086	P	20050816	200735 E
			US 2006505624	A	20060816	
WO 2007022362	A3	20071115				200777 E
CN 101273524	A	20080924	CN 200680035620	A	20060816	200868 E
			WO 2006US32159	A	20060816	

Priority Applications (no., kind, date): US 2005709086 P 20050816; US 2006505624 A 20060816

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2007022362	A2	EN	33	10	

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HN HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MY MZ NA NG NI NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW
Regional Designated States,Original: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
US 20070064744 A1 EN Related to Provisional US 2005709086
WO 2007022362 A3 EN
National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HN HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MY MZ NA NG NI NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW
Regional Designated States,Original: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
CN 101273524 A ZH PCT Application WO 2006US32159
Based on OPI patent WO 2007022362

Alerting Abstract ...in a packet relative to other symbols in the packet when the symbols are transmitted over time varying frequencies, thus improving the reliability and accuracy of the frame synchronization

found-signal...

Original Publication Data by Authority

Argentina

Assignee name & address:
Claims:
...the previously received symbol comprise a number of values equal to a
Fast Fourier Transform (FFT) window...

9/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0016459722 - Drawing available
WPI ACC NO: 2007-175951/200717
XRPX Acc No: N2007-127742
Radar installation for motor vehicle detects relative distance and relative speed during relative movement distance from phase difference between peak frequencies
Patent Assignee: MURATA MFG CO LTD (MURA)
Inventor: ISHII T; NAKANISHI M
Patent Family (2 patents, 111 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2006134912	A1	20061221	WO 2006JP311830	A	20060613	200717 B
US 20080088500	A1	20080417	WO 2006JP311830	A	20060613	200829 E
			US 2007946696	A	20071128	

Priority Applications (no., kind, date): JP 2005177377 A 20050617

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2006134912	A1	JA	38	10	

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
Regional Designated States,Original: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
US 20080088500 A1 EN Continuation of application WO 2006JP311830

Original Publication Data by Authority

Argentina

Assignee name & address:
Original Abstracts:
...S1). These IF beat signals are then subjected to a frequency transform process such as FFT calculation process to acquire frequency spectra (S2). Then, peak frequencies (a1,a2) are detected from...

...alors soumis a un processus de transformation de frequence tel un processus de calcul de FFT pour acquerir un spectre de frequences (S2). Puis, les frequences crete (a1, a2) sont detectees...
Claims:
...is reflected from a target, the electromagnetic wave including repeated modulation sections in which a frequency is changed over time in a predetermined frequency range; andan information detecting unit that detects information regarding the target on the basis...

...first section of the transmitted wave in which the frequency of the transmitted wave is changed over time and a frequency spectrum of a second beat signal in a second section of the transmitted wave in which an inclination of frequency transition over time is the same as an inclination of frequency transition in the first section, the second...

9/3,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0008897475 - Drawing available
WPI ACC NO: 1998-446652/199838
XRPX Acc No: N1998-348213
Frame timing method for digital audio broadcasting e.g Eureka-147 system - involves matched filtering operations that separate waveforms of null and sine symbols contained in multiple carriers of system
Patent Assignee: DELCO ELECTRONICS CORP (DELC-N)
Inventor: BEALE T R; MCDANELL R A
Patent Family (1 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
US 5790784	A	19980804	US 1995570456	A	19951211	199838 B

Priority Applications (no., kind, date): US 1995570456 A 19951211

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5790784	A	EN	11	5	

Alerting Abstract ...with a replica of the sine-sweep symbol to produce a matched filter output.The FFT (102) of the matched filter (160) output is taken. The frequency at which the matched...

Original Publication Data by Authority

Argentina

Assignee name & address:
Claims:
...simultaneously over a predetermined frequency range, wherein each of the multiple data carriers is modulated over time , the system including a timer for controlling the rate at which the digital information is sampled, the network comprising...

...and means for converting the frequency value to a time offset value and

providing the time offset value to the timer; wherein the timer is operable to adjust the rate at which the digital information is sampled in accordance with the time offset...

^9/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0004829064
WPI ACC NO: 1989-204242/198928
XRPX Acc No: N1991-170363
Turbine generator core hot spot monitor - detects hot spot development by monitoring voltage developed across generator rotor, detecting core failure before major breakdown
Patent Assignee: WESTINGHOUSE ELECTRIC CORP (WESE)
Inventor: MILLER R C; TWERDOCHLIB M
Patent Family (5 patents, 5 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
JP 1144343	A	19890606	JP 1988271936	A	19881027	198928 B
ES 2011180	A	19891216	ES 19883294	A	19881028	199007 E
CN 1035179	A	19890830				199028 E
US 5032826	A	19910716	US 1987114328	A	19871029	199131 E
			US 1989368102	A	19890619	
IT 1225879	B	19901207	IT 198841700	A	19881028	199225 E

Priority Applications (no., kind, date): US 1987114328 A 19871029; US 1989368102 A 19890619
Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 1144343	A	JA	6		

Alerting Abstract ...produces a voltage signal that changes as the core (12) malfunctions. By comparing signal samples over time , core failure can be detected...

...Transform routine executed by a computer (32) or analysed directly. The computer (32) monitors the spectrum or time domain signal over time for changes and produces an alarm when the changes exceed a threshold. Bandpass filter (34) and a simple threshold comparison routine or analog threshold devices can substitute for the FFT routine...

Equivalent Alerting Abstract ...produces a voltage signal that changes as the core (12) malfunctions. By comparing signal samples over time , core failure can be detected...

...Transform routine executed by a computer (32) or analysed directly. The computer (32) monitors the spectrum or time domain signal over time for changes and produces an alarm when the changes exceed a threshold. Bandpass filter (34) and a simple threshold comparison routine or analog threshold devices can substitute for the FFT routine...

Original Publication Data by Authority

Argentina

Assignee name & address:
Original Abstracts:
...produces a voltage signal that changes as the core 12 malfunctions. By comparing signal samples over time , core failure can be detected. Spring loaded rotor shaft brushes 20 and 22 connected to...

...Transform routine executed by a computer 32 or analyzed directly. The computer 32 monitors the spectrum or time domain signal over time for changes and produces an alarm when the changes exceed a threshold. Bandpass filters 34 and a simple threshold comparison routine or analog threshold devices can substitute for the FFT routine.
Claims:

13/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0015278131 - Drawing available
WPI ACC NO: 2005-628254/200564
XRPX Acc No: N2005-515794
Output signal generating method for use in analysis and synthesis filter bank, involves assembling set of spectral coefficients into blocks into which secondary transform is applied to generate set of hybrid-transform coefficients
Patent Assignee: DAVIDSON G A (DAVI-I); DOLBY LAB LICENSING CORP (DOLB); VINTON M S (VINT-I)
Inventor: DAVIDSON G A ; VINTON M S
Patent Family (10 patents, 108 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20050185850	A1	20050825	US 2004783951	A	20040219	200564 B
WO 2005083682	A1	20050909	WO 2005US1923	A	20050121	200564 E
EP 1723638	A1	20061122	EP 2005705987	A	20050121	200677 E
			WO 2005US1923	A	20050121	
AU 2005217943	A1	20050909	AU 2005217943	A	20050121	200712 E
MX 2006009424	A1	20061101	WO 2005US1923	A	20050121	200737 E
			MX 2006009424	A	20060818	
BR 200507806	A	20070710	BR 2005007806	A	20050121	200747 E
			WO 2005US1923	A	20050121	
IN 200602084	P2	20070518	WO 2005US1923	A	20050121	200748 E
			IN 2006KN2084	A	20060724	
CN 1926609	A	20070307	CN 2005800005301	A	20050121	200752 E
KR 2007001123	A	20070103	WO 2005US1923	A	20050121	200755 E
			KR 2006715751	A	20060803	
JP 2007526691	W	20070913	WO 2005US1923	A	20050121	200762 E
			JP 2006554100	A	20050121	

Priority Applications (no., kind, date): US 2004783951 A 20040219

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20050185850	A1	EN	13	5	
WO 2005083682	A1	EN			

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
Regional Designated States,Original: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

EP 1723638	A1	EN	PCT Application WO 2005US1923	
			Based on OPI patent WO 2005083682	

Regional Designated States,Original: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

AU 2005217943	A1	EN	Based on OPI patent WO 2005083682	
MX 2006009424	A1	ES	PCT Application WO 2005US1923	
			Based on OPI patent WO 2005083682	

BR 200507806 A PT PCT Application WO 2005US1923
Based on OPI patent WO 2005083682
IN 200602084 P2 EN PCT Application WO 2005US1923
KR 2007001123 A KO PCT Application WO 2005US1923
Based on OPI patent WO 2005083682
JP 2007526691 W JA 22 PCT Application WO 2005US1923
Based on OPI patent WO 2005083682

Inventor: DAVIDSON G A ...

... VINTON M S

Alerting Abstract ...effective way to adapt the frequency resolution of filter banks, which is implemented by a modified discrete cosine transform .

Original Publication Data by Authority

Argentina

Assignee name & address:
Inventor name & address:
DAVIDSON G A ...

... VINTON M S ...

... VINTON M S ...

... DAVIDSON G A ...

... VINTON M S ...

... DAVIDSON G A ...

... VINTON, Mark Stuart ...
... DAVIDSON, Grant Allen ...

... VINTON M S ...

... DAVIDSON G A ...

... VINTON M S ...

... DAVIDSON G A ...

... DAVIDSON G A ...

... VINTON M S ...

... Vinton, Mark Stuart ...

... Davidson, Grant Allen ...

... VINTON, Mark Stuart ...

... DAVIDSON, Grant, Allen
Examiner:
Original Abstracts:
Analysis and synthesis filter banks such as those used in audio and video coding systems are each implemented by a hybrid transform that comprises a primary transform in cascade...

...Analysis and synthesis filter banks such as those used in audio and video coding systems are each implemented by a hybrid transform that comprises a primary transform in cascade...

...Analysis and synthesis filter banks such as those used in audio and video coding systems are each implemented by a hybrid transform that comprises a primary transform in cascade...

...et la synthese de bancs de filtres tels que ceux utilises dans des systemes de codage audio et video sont chacune mise en oeuvre par une transformee hybride qui comporte une transformee...
Claims:

^ 13/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

0005266261 - Drawing available
WPI ACC NO: 1990-261110/199034
Related WPI Acc No: 1990-261081; 1992-433934; 1998-297391; 1996-058067; 1991-340084
XRPX Acc No: N1990-202296
Low time delay transform encoding system for high quality audio - uses time and frequency domain coding to produce digital transform coeffts. assembled in format suitable for transmission or storage
Patent Assignee: DAVIS M F (DAVI-I); DOLBY LAB LICENSING CORP (DOLB); FIELDER L D (FIEL-I)
Inventor: DAVIDSON G A ; DAVIS M F; FIELDER L; FIELDER L D
Patent Family (33 patents, 29 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 1990009064	A	19900809	WO 1990US507	A	19900129	199034 B
AU 199051563	A	19900824			199046 E	
EP 447495	A	19910925	EP 1990903695	A	19900129	199139 E
BR 199007062	A	19911008			199145 E	
US 5109417	A	19920428	US 1989303714	A	19890127	199220 E
			US 1989439868	A	19891120	
			US 1989458894	A	19891224	
JP 4503136	W	19920604	JP 1990503714	A	19900129	199229 E
			WO 1990US507	A	19900129	
US 5142656	A	19920825	US 1989303714	A	19890127	199237 E
			US 1989439868	A	19891120	
			US 1989458894	A	19891229	
			US 1991787541	A	19911104	
US 5230038	A	19930720	US 1989303714	A	19890127	199330 E
			US 1989439868	A	19891120	
			US 1989458894	A	19891229	
			US 1991787665	A	19911104	

AU 643677 B 19931125 AU 1990051563 A 19900129 199403 E
EP 610975 A2 19940817 EP 1990903695 A 19900129 199432 E
EP 1994107838 A 19900129
EP 447495 B1 19941228 EP 1990903695 A 19900129 199505 E
WO 1990US507 A 19900129
DE 69015613 E 19950209 DE 69015613 A 19900129 199511 E
EP 1990903695 A 19900129
WO 1990US507 A 19900129
ES 2065524 T3 19950216 EP 1990903695 A 19900129 199513 E
CA 2026207 C 19950411 CA 2026207 A 19900129 199522 E
EP 610975 A3 19941214 EP 1994107838 A 19900129 199537 E
EP 610975 B1 19980902 EP 1990903695 A 19900129 199839 E
EP 1994107838 A 19900129
DE 69032624 E 19981008 DE 69032624 A 19900129 199846 E
EP 1994107838 A 19900129
ES 2119932 T3 19981016 EP 1994107838 A 19900129 199849 E
JP 11088185 A 19990330 JP 1990503714 A 19900129 199923 E
JP 1998158420 A 19900129
JP 11145844 A 19990528 JP 1990503825 A 19900129 199932 E
JP 1998158415 A 19900129
KR 1999037843 A 19990525 KR 1990702168 A 19900927 200033 E
KR 19993414 A 19990202
JP 3093178 B2 20001003 JP 1990503825 A 19900129 200051 E
JP 1998158415 A 19900129
JP 3093179 B2 20001003 JP 1990503714 A 19900129 200051 E
JP 1998158420 A 19900129
KR 220861 B1 19990915 WO 1990US507 A 19900129 200107 E
KR 1990702168 A 19900927
KR 220862 B1 19990915 WO 1990US501 A 19900129 200107 E
KR 1990702194 A 19900927
KR 214252 B1 20000315 KR 1990702168 A 19900927 200122 E
KR 19993414 A 19990202
KR 214253 B1 20000315 KR 1990702194 A 19900927 200122 E
KR 19993418 A 19990202
CA 2140678 C 20010501 CA 2026207 A 19900129 200131 E
CA 2140678 A 19900129
CA 2332407 A1 19900728 CA 2140678 A 19900129 200134 E
CA 2332407 A 19900129
CA 2340610 A1 19900728 CA 2140678 A 19900129 200138 E
CA 2340610 A 19900129
SG 82549 A1 20010821 SG 19968277 A 19900129 200158 E
CA 2332407 C 20020305 CA 2140678 A 19900129 200225 E
CA 2332407 A 19900129
CA 2340610 C 20020305 CA 2140678 A 19900129 200225 E
CA 2340610 A 19900129

Priority Applications (no., kind, date): US 1989303714 A 19890127; US 1989439868 A 19891120; US 1989458894 A 19891224; US 1989458894 A 19891229; US 1991787541 A 19911104; US 1991787665 A 19911104

Patent Details
Number Kind Lan Pg Dwg Filing Notes
WO 1990009064 A EN
National Designated States,Original: AU BB BG BR CA FI HU JP KP KR LK MC MG MW NO RO SD SU US
Regional Designated States,Original: AT BE CH DE DK ES FR GB IT LU NL OA

SE
EP 447495 A EN
Regional Designated States,Original: AT BE CH DE ES FR GB IT LI LU NL SE
BR 199007062 A PT
US 5109417 A EN 48
JP 4503136 W JA PCT Application WO 1990US507
Based on OPI patent WO 1990009064
US 5142656 A EN 47 25 C-I-P of application US 1989303714
C-I-P of application US 1989439868
Division of application US 1989458894

Division of patent US 5109417
US 5230038 A EN 48 25 C-I-P of application US 1989303714
C-I-P of application US 1989439868
Division of application US 1989458894

Division of patent US 5109417
AU 643677 B EN Previously issued patent AU 9051563

Based on OPI patent WO 1990009064
EP 610975 A2 EN 54 26 Related to application EP 1990903695
Regional Designated States,Original: AT BE CH DE DK ES FR GB IT LI NL SE
EP 447495 B1 EN 87 26 PCT Application WO 1990US507
Based on OPI patent WO 1990009064
Regional Designated States,Original: AT BE CH DE DK ES FR GB IT LI LU NL SE
DE 69015613 E DE Application EP 1990903695
PCT Application WO 1990US507
Based on OPI patent EP 447495
Based on OPI patent WO 1990009064
ES 2065524 T3 ES Application EP 1990903695
Based on OPI patent EP 447495
CA 2026207 C EN
EP 610975 A3 EN Related to patent EP 447495
EP 610975 B1 EN Division of application EP 1990903695

Division of patent EP 447495
Regional Designated States,Original: AT BE CH DE DK ES FR GB IT LI NL SE
DE 69032624 E DE Application EP 1994107838
Based on OPI patent EP 610975
ES 2119932 T3 ES Application EP 1994107838
Based on OPI patent EP 610975
JP 11088185 A JA 47 Division of application JP 1990503714
JP 11145844 A JA 42 Division of application JP 1990503825

KR 1999037843 A KO 49 Division of application KR 1990702168

JP 3093178 B2 JA 41 Division of application JP 1990503825

Previously issued patent JP 11145844

JP 3093179 B2 JA 48 Division of application JP 1990503714

Previously issued patent JP 11088185

KR 220861 B1 KO PCT Application WO 1990US507

KR 220862	B1	KO	PCT Application WO 1990US501
KR 214252	B1	KO	Division of application KR 1990702168
KR 214253	B1	KO	Division of application KR 1990702194
CA 2140678	C	EN	Division of application CA 2026207
CA 2332407	A1	EN	Division of application CA 2140678
CA 2340610	A1	EN	Division of application CA 2140678
SG 82549	A1	EN	
CA 2332407	C	EN	Division of application CA 2140678
CA 2340610	C	EN	Division of application CA 2140678

Low time delay transform encoding system for high quality audio -

Original Titles:
...LOW TIME-DELAY TRANSFORM CODER, DECODER, AND ENCODER /DECODER FOR HIGH-QUALITY AUDIO
...

...CODEUR, DECODEUR, ET CODEUR /DECODEUR DE QUALITE AUDIO ELEVEE A TEMPORISATION FAIBLE...

...LOW TIME-DELAY TRANSFORM CODER, DECODER, AND ENCODER /DECODER FOR HIGH-QUALITY AUDIO
...
...CODEUR, DECODEUR, ET CODEUR /DECODEUR DE QUALITE AUDIO ELEVEE A TEMPORISATION FAIBLE...

...Coded signal formatting for encoder and decoder of high-quality audio
...

...Formatage d'un signal code pour codeur et decodeur d'un systeme audio de haute qualite...

...Coded signal formatting for encoder and decoder of high-quality audio
...

...Formatage d'un signal code pour codeur et decodeur d'un systeme audio de haute qualite...

...SHORT TIME DELAY CONVERSION ENCODER AND DECODER FOR HIGH QUALITY AUDIO SIGNAL...

...LOW BIT-RATE CONVERTING ENCODER AND DECODER FOR HIGH QUALITY AUDIO
...

...Low bit rate transform coder, decoder, and encoder /decoder for high-quality audio
...

...Low bit rate transform coder, decoder, and encoder /decoder for high-quality audio

...

...Low bit rate transform coder, decoder, and encoder /decoder for high-quality audio
...

...LOW TIME-DELAY TRANSFORM CODER, DECODER, AND ENCODER /DECODER FOR HIGH-QUALITY AUDIO
Inventor: DAVIDSON G A ...

Equivalent Alerting Abstract ...USE - For digital encoding of wideband audio information...

...The encoder encodes digital information, comprising signal sample blocks representing analog audio signals. The encoder generates subband information blocks, each comprising a set of digital words generated in response to...

...USE/ADVANTAGE - For processing wideband audio information, partic. music. Provides high encoded sound quality at bit rates down to 128 kilo bits per second. Reproduction quality suitable for...

...pre- and post-transform multiplication of input signal samples to implement concurrent application of a modified Discrete Cosine Transform and a modified Discrete Sine Transform according to the Evenly-Stacked Time Domain Aliasing Cancellation...

...complex function to obtain complex-valued modified signal sample sets. A device for applying a FFT concurrently against these sets and a device for multiplying the results of the transformation by...
...signals e.g. music, partic. broadcast link. Reduces computational complexity of digital filter bank of modified Discrete Cosine Transform . Provides high subjective sound quality at encoded rate as low as 128 kb per second. High degree of immunity against signal corruption
...

Original Publication Data by Authority

Argentina

Assignee name & address:
Inventor name & address:
... DAVIDSON GRANT A ...

... Davidson, Grant A ...

... Davidson, Grant A ...

... Davidson, Grant A
Examiner:
Original Abstracts:
...the encoder,a discrete transform having a function equivalent to the alternate application of a modified Discrete Cosine Transform and a modified Discrete Sine Transform according to the Time Domain Aliasing Cancellation technique or...

...pre- and post-transform multiplication of input signal samples to implement concurrent application of a modified Discrete Cosine Transform and a modified Discrete Sine Transform according to the Evenly-Stacked Time Domain Aliasing Cancellation...

...signal samples, and to reduce the computational complexity of a digital filter bank of a modified Discrete Cosine Transform .

...the encoder,a discrete transform having a function equivalent to the alternate application of a modified Discrete Cosine Transform and a modified Discrete Sine Transform according to the Time Domain Aliasing Cancellation technique or...
Claims:
...1. An encoder for the high-quality digital encoding of wideband audio information comprising signal samples, comprising</br> subband means (104, 108), including adaptive bit allocation means (106...

...1. An encoder for the encoding of audio information comprising signal samples, said encoder comprising</br> subband means (104, 108), including adaptive bit allocation means (106), for defining frequency subbands...

...1. An encoder for the encoding of audio information comprising signal samples, said encoder comprising</br> means (102, 103) for receiving said signal samples,</br> subband means (104, 108), including adaptive...

...sample block pairs by applying a function substantially corresponding to the alternate application of a modified Discrete Cosine Transform function and a modified Discrete Sine Transform function in accordance

0005266232 - Drawing available
WPI ACC NO: 1990-261081/199034
Related WPI Acc No: 1991-340084; 1990-261110; 1996-058067; 1998-297391; 1992-433934
XRPX Acc No: N1990-202268
Low bit rate encoder -decoder for high quality digital audio - uses analysis-synthesis window pairs and adaptive transform coefficient quantisation and adaptive bit allocation
Patent Assignee: DOLBY LAB LICENSING CORP (DOLB)
Inventor: DAVIDSON G A ; FIEDLER L; FIEDLER L D; FIELDER L; FIELDER L D; DAVIDSON G
Patent Family (35 patents, 33 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 1990009022	A	19900809	WO 1990US501	A	19900129	199034 B
AU 199051596	A	19900824				199046 E
CA 2026213	A	19910521				199144 E
BR 199007063	A	19911008				199145 E
EP 455738	A	19911113	EP 1990903518	A	19900129	199146 E
JP 4504192	W	19920723	JP 1990503825	A	19900129	199236 E

WO 1990US501 A 19900129

EP 511692 A2 19921104 EP 1992112967 A 19900129 199245 E
EP 513860 A2 19921119 EP 1992112940 A 19900129 199247 E
EP 514949 A2 19921125 EP 1992112939 A 19900129 199248 E
AU 199333736 A 19930422 CA 2007776 A 19900115 199323 E
AU 199333736 A 19930223
US 5222189 A 19930622 US 1989303714 A 19890127 199326 E
US 1989439868 A 19891120
US 1989458894 A 19891229
WO 1990US507 A 19900129
US 1990582956 A 19900926
EP 560413 A2 19930915 EP 1990903518 A 19900129 199337 E
EP 1993108874 A 19900129
EP 511692 A3 19930127 EP 1992112967 A 19900129 199347 E
EP 513860 A3 19930127 EP 1992112940 A 19900129 199347 E
EP 514949 A3 19930203 EP 1992112939 A 19900129 199347 E
EP 455738 B1 19940112 EP 1990903518 A 19900129 199403 E
WO 1990US501 A 19900129
DE 69006011 E 19940224 DE 69006011 A 19900129 199409 E
EP 1990903518 A 19900129
WO 1990US501 A 19900129
US 5357594 A 19941018 US 1989303714 A 19890127 199441 E
US 1989439868 A 19891120
US 1990582956 A 19900926
US 1993378594 A 19930616
AU 655535 B 19941222 US 1990578063 A 19900905 199507 E
AU 199333736 A 19930223
CA 2026213 C 19950404 CA 2026213 A 19900129 199521 E
EP 560413 A3 19940504 EP 1993108874 A 19900129 199523 E
EP 560413 B1 19960327 EP 1990903518 A 19900129 199617 E
EP 1993108874 A 19900129
DE 69026278 E 19960502 DE 69026278 A 19900129 199623 E
EP 1993108874 A 19900129
ES 2085680 T3 19960601 EP 1993108874 A 19900129 199629 E
EP 513860 B1 19970319 EP 1990903518 A 19900129 199716 E
EP 1992112940 A 19900129
DE 69030266 E 19970424 DE 69030266 A 19900129 199722 E
EP 1992112940 A 19900129
ES 2099185 T3 19970516 EP 1992112940 A 19900129 199727 E
EP 514949 B1 19971119 EP 1990903518 A 19900129 199751 E
EP 1992112939 A 19900129
DE 69031737 E 19980102 DE 69031737 A 19900129 199806 E
EP 1992112939 A 19900129
ES 2109296 T3 19980116 EP 1992112939 A 19900129 199810 E
SG 47111 A1 19980320 SG 19968335 A 19900129 199818 E
SG 48247 A1 19980417 SG 19968275 A 19900129 199828 E
SG 49891 A1 19980615 SG 19968307 A 19900129 199836 E
EP 560413 B2 20020515 EP 1990903518 A 19900129 200234 E
EP 1993108874 A 19900129
EP 455738 B2 20070404 EP 1990903518 A 19900129 200726 E
WO 1990US501 A 19900129
EP 1992112939 A 19920729
EP 1992112940 A 19920729
EP 1992112967 A 19920729
EP 1993108874 A 19930602

Priority Applications (no., kind, date): US 1989303714 A 19890127; US 1989439868 A 19891120; US 1989458894 A 19891229; US 1990582956 A 19900926; US 199378594 A 19930616

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1990009022	A	EN			
National Designated States,Original: AU BB BG FI HU JP KP KR LK MC MG MW NO OA RO SD SU					
Regional Designated States,Original: AT BE CH DE DK ES FR GB IT LU NL OA SE					
CA 2026213	A	EN			
BR 199007063	A	PT			
EP 455738	A	EN			
Regional Designated States,Original: AT BE CH DE ES FR GB IT LI LU NL SE					
JP 4504192	W	JA	52		PCT Application WO 1990US501 Based on OPI patent WO 1990009022
EP 511692	A2	EN	57	25	Related to patent EP 455738
Regional Designated States,Original: AT BE CH DE DK ES FR GB IT LI LU NL SE					
EP 513860	A2	EN	58	25	
Regional Designated States,Original: AT BE CH DE DK ES FR GB IT LI LU NL SE					
EP 514949	A2	EN	59	25	Related to patent EP 455738
Regional Designated States,Original: AT BE CH DE DK ES FR GB IT LI LU NL SE					
AU 199333736	A	EN			Division of application CA 2007776
US 5222189	A	EN			C-I-P of application US 1989303714 C-I-P of application US 1989439868 C-I-P of application US 1989458894 PCT Application WO 1990US507
EP 560413	A2	EN	58	25	Related to application EP 1990903518
Regional Designated States,Original: AT BE CH DE DK ES FR GB IT LI LU NL SE					
EP 511692	A3	EN			
EP 513860	A3	EN			
EP 514949	A3	EN			
EP 455738	B1	EN	61	25	PCT Application WO 1990US501 Based on OPI patent WO 1990009022
Regional Designated States,Original: AT BE CH DE DK ES FR GB IT LI LU NL SE					
DE 69006011	E	DE			Application EP 1990903518 PCT Application WO 1990US501 Based on OPI patent EP 455738 Based on OPI patent WO 1990009022
US 5357594	A	EN	26	16	C-I-P of application US 1989303714 C-I-P of application US 1989439868 Division of application US 1990582956 Division of patent US 5222189
AU 655535	B	EN			Division of application US 1990578063 Previously issued patent AU 9333736
CA 2026213	C	EN			
EP 560413	A3	EN			

EP 560413 B1 EN 58 25 Derived from application EP 1990903518

Regional Designated States,Original: AT BE CH DE DK ES FR GB IT LI LU NL SE
DE 69026278 E DE Application EP 1993108874
Based on OPI patent EP 560413
ES 2085680 T3 ES Application EP 1993108874
Based on OPI patent EP 560413
EP 513860 B1 EN 65 25 Division of application EP 1990903518

Regional Designated States,Original: AT BE CH DE DK ES FR GB IT LI LU NL SE
DE 69030266 E DE Application EP 1992112940
Based on OPI patent EP 513860
ES 2099185 T3 ES Application EP 1992112940
Based on OPI patent EP 513860
EP 514949 B1 EN 68 25 Division of application EP 1990903518

Division of patent EP 455738
Regional Designated States,Original: AT BE CH DE DK ES FR GB IT LI LU NL SE
DE 69031737 E DE Application EP 1992112939
Based on OPI patent EP 514949
ES 2109296 T3 ES Application EP 1992112939
Based on OPI patent EP 514949
SG 47111 A1 EN
SG 48247 A1 EN
SG 49891 A1 EN
EP 560413 B2 EN Division of application EP 1990903518

Division of patent EP 455738
Regional Designated States,Original: AT BE CH DE DK ES FR GB IT LI LU NL SE
EP 455738 B2 EN PCT Application WO 1990US501
Related to application EP 1992112939
Related to application EP 1992112940
Related to application EP 1992112967
Related to application EP 1993108874
Related to patent EP 511692
Related to patent EP 513860
Related to patent EP 514949
Related to patent EP 560413
Based on OPI patent WO 1990009022
Regional Designated States,Original: AT BE CH DE DK ES FR GB IT LI LU NL SE

Low bit rate encoder -decoder for high quality digital audio -

Original Titles:
...LOW BIT RATE TRANSFORM CODER, DECODER AND ENCODER /DECODER FOR HIGH-QUALITY AUDIO
...

...LOW BIT RATE TRANSFORM CODER, DECODER AND ENCODER /DECODER FOR HIGH-QUALITY AUDIO
...

...LOW BIT RATE TRANSFORM CODER, DECODER AND ENCODER /DECODER FOR HIGH-QUALITY AUDIO
...

...Low bit rate transform coder, decoder, and encoder /decoder for high-quality audio
...
...Low bit rate transform coder, decoder, and encoder /decoder for high-quality audio
...

...Low bit rate transform coder, decoder, and encoder /decoder for high-quality audio
...

...Low bit rate transform coder, decoder, and encoder /decoder for high-quality audio
...

...Low bit rate transform coder, decoder, and encoder /decoder for high-quality audio
...

...Adaptive bit allocation for audio encoder and decoder...

...Allocation adaptative de bits pour un codeur et un decodeur audio
...

...Adaptive bit allocation for audio encoder and decoder...
...Allocation adaptative de bits pour un codeur et un decodeur audio
...

...Adaptive bit allocation for audio encoder and decoder...

...Allocation adaptative de bits pour un codeur et un decodeur audio
...

...Low time-delay transform coder, decoder, and encoder /decoder for high-quality audio
...

...LOW BIT RATE TRANSFORM CODER, DECODER AND ENCODER /DECODER FOR HIGH-QUALITY AUDIO
Inventor: DAVIDSON G A ...

... DAVIDSON G

Original Publication Data by Authority

Argentina
Assignee name & address:
Inventor name & address:
... DAVIDSON G A ...

... DAVIDSON G A ...

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... DAVIDSON G A ...

... Davidson, Grant Allen, 4615 Reinhardt Drive, Oakland, CA 94619, US ...

... Davidson, Grant Allen, 182 Caldecott Lane, Apartment 222, Oakland, CA 94618, US ...

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... Davidson, Grant Allen ...

... DAVIDSON G A ...

... DAVIDSON G A ...

... DAVIDSON G A ...

... DAVIDSON, GRANT, ALLEN, US
Examiner:
Original Abstracts:
...the encoder, a discrete transform having a function equivalent to the alternate application of a modified Discrete Cosine Transform and a modified Discrete Sine Transform according to the Time Domain Aliasing Cancellation technique or...

...relates to the design of analysis and synthesis windows for use in high-quality transform encoding and decoding of audio signals,

especially encoding and decoding having a short signal-propagation delay.
The design method derives a pair of...
Claims:
...1. An encoder for the high-quality digital encoding of wideband analog audio information, comprising</br> subband means for receiving said wideband analog audio information and for generating subband...

...An encoder for the high-quality digital encoding of wideband analog audio information, comprising subband means for receiving said wideband analog audio information and for generating subband b...1. An encoder for the high-quality digital encoding of wideband analog audio information, comprising</br> means for sampling and quantizing said wideband analog audio information into time...

...1. An encoder for the high-quality digital encoding of wideband analog audio information, comprising</br> means for sampling and quantizing said wideband analog audio information into time-d...1. An encoder for the high-quality digital encoding of wideband analog audio information, comprising</br> means for sampling and quantizing said wideband analog audio information into time...

...sets,</br> means for applying a discrete transform function substantially corresponding to the alternate application of a modified Discrete Cosine Transform function and a modified Discrete Sine Transform function in accordance with the evenly-stacked Time-Domain Aliasing Cancellation technique, wherein said modified Discrete Cosine Transform and said modified Discrete Sine Transform are implemented by a single Fast Fourier Transform...sets,</br> means for applying a discrete transform function substantially corresponding to the alternate application of a modified Discrete Cosine Transform function and a modified Discrete Sine Transform function in accordance with the evenly-stacked Time-Domain Aliasing Cancellation technique, wherein said modified Discrete Cosine Transform and said modified Discrete Sine Transform are implemented by a single Fast Fourier Transform concurrently
...1. An encoder for the high-quality digital encoding of wideband audio information, comprising</br> subband means for receiving said wideband audio information and for generating subband blocks...

...1. An encoder for the high-quality digital encoding of wideband audio information, comprising</br> subband means for receiving said wideband audio information and for generating subband blocks...

...An encoder for the high-quality digital encoding of wideband audio information, comprisingsubband means for receiving said wideband audio information and for generating subband blocks ... An encoder for the encoding of audio information comprising signal samples , said encoder comprising means for receiving said signal samples, subband means, including adaptive bit allocation means,
?

NPL Full Text Files:-

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Set Items Description

S1 9593 FFT OR FOURIER()(FREQUENC??? OR FREQ??)()TRANSFORM?????? OR MDCT OR MODIFIED()DISCRETE()COSINE()TRANSFORM??????

S2 81147 (FREQUENC??? OR FREQ??? OR SPECTR??? OR SPECTRALCONTENT??)-(5N)(TIME OR DURATION?? OR PERIOD?? OR TIMEFRAME??)

S3 4141 (CHANG??? OR ALTER????? OR VARY??? OR VARIES OR VARIED OR -ADJUST???? OR CORRECT???? OR AMEND??? OR MODIF???????)(5N)S2

S4 149605 (AUDIO OR SPEECH?? OR ACOUSTIC?? OR VOICE?? OR SOUND??)(5N-)(COD??? OR ENCOD??? OR COMPRES?????)

S5 246 AU=(VINTON M? OR VINTON, M? OR DAVIDSON G? OR DAVIDSON, G?)

S6 0 S1(S)S3(S)S4

S7 0 S1(50N)S3(50N)S4

S8 6 S1 AND S3 AND S4

S9 6 RD (unique items)

S10 0 S1(S)S3(S)S4

S11 2 S1(S)S2(S)S4

S12 1 RD (unique items)

S13 5 S1(50N)S2(50N)S4

S14 4 RD (unique items)

S15 0 S5 AND S1

9/3,K/1 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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12517753 SUPPLIER NUMBER: 64423583 (USE FORMAT 7 OR 9 FOR FULL TEXT)
CROSSING DOMAINS: not always a whole 'nother way of thinking.(Technology Information)
Strassberg, Dan
EDN, 45, 16, 69
August 3, 2000
ISSN: 0012-7515 LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 2610 LINE COUNT: 00216

... Because most spectrum analyzers provide only amplitude-versus-frequency information, if you try to convert spectrum -analyzer outputs to the time domain, you don't obtain correct representations of the signal behavior. Nevertheless, lossy conversion techniques, such as those used in audio compression , often sacrifice phase information (Reference 2). They can do so because, over much of the ...real data in either the time-domain or, thanks to the scope's built-in FFT capability, the frequency domain.

LeCroy has also devised a slick technique for displaying the filter ...

...step is an impulse, which, in theory, contains all frequencies.) Having the scope perform an FFT on the differentiated filter output yields the filter's frequency response, which the scope can...

9/3,K/2 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c) 2008 Gale/Cengage. All rts. reserv.

09829745 SUPPLIER NUMBER: 17613493 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Advances in signal processing technology for electronic warfare.(Cover Story)
Stephens, James P.
Journal of Electronic Defense, v18, n9, p41(7)
Sep, 1995
DOCUMENT TYPE: Cover Story ISSN: 0192-429X LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 3419 LINE COUNT: 00289

... of the Fourier Transform. The Fourier Transform and its digital implementation, the Fast Fourier Transform (FFT), allow the decomposition of a signal into individual frequency components and their amplitudes.

The major...

...of these tools is that time and frequency information cannot be combined to tell how frequency content is changing in time . For example, if you look at the light coming from the sun above the earth...

...the STFT, since the environment is typically sampled over some time interval, processed (i.e., FFT) and then output to its intended function. This process is continually repeated. But what is...varying signal analysis, system identification and spectral estimation, signal detection

and parameter estimation, speaker identification, speech coding , estimation of the group delay or the instantaneous frequency of a signal and complex demodulation...

07247383 SUPPLIER NUMBER: 15338052 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Ratio detection precisely characterizes signals' amplitude and frequency.
(models of how humans perceive sound and color lead to techniques for extract information content from signals)
McEachern, Robert H.
EDN, v39, n5, p107(3)
March 3, 1994
ISSN: 0012-7515 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1885 LINE COUNT: 00154

ABSTRACT: The well-known fast Fourier transform (FFT) technique for estimating the amplitude and frequency of discrete tones in the power spectrum of...

The fast Fourier transform (FFT) is a well-known technique for estimating the frequency and amplitude of discrete tones within...

...in a set of evenly spaced filters, such as those created by a Gaussian-windowed FFt . (Recall that the Fourier transform of a Gaussian function of time is a Gaussian function of frequency, so using a Gaussian window with an FFT amounts to creating a filter bank in which each filter's response is a Gaussian...

...slowly--is a simple function of the difference between the logarithms of successive filter pairs (FFT) bins') output amplitudes. Fig 1 shows how these ratio detectors yield multiple, accurate estimates of...

...other signals, you can determine the frequencies of tones within a tiny fraction of the FFT bins' frequency spacing.

To create the figure, a digital signal generator produced 64 samples of...

...window functions. Windowing these samples with a Gaussian function and using a 64-point, real FFT produced the 33-point power spectrum shown. Since the Fourier transform of a Gaussian function of time is a Gaussian function of frequency, the Gaussian-windowed FFT acts as a filter bank comprising 33 Gaussian bandpass filters. Each consecutive pair of filter... the environment filters out some frequencies or obliterates others.

Even if the fundamental's instantaneous frequency varies as a function of time , f(t), the log of the Nth harmonic's instantaneous frequency is simply ln(N...

...and FM waveforms have bandwidths that are orders of magnitude smaller than that of the speech waveform itself, so you can encode them with far fewer bits.

Changes in amplitude and pitch do not affect the log...

9/3,K/4 (Item 4 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c) 2008 Gale/Cengage. All rts. reserv.

04812685 SUPPLIER NUMBER: 09447175 (USE FORMAT 7 OR 9 FOR FULL TEXT)
What DOS does for DSP: '386 host cuts cost but is limited to data capture and playback. (three software packages demonstrate digital signal processing capabilities on MS-DOS-based personal computers)
Norris, Harry
EDN, v35, n18A, p30(3)
Sept 6, 1990
ISSN: 0012-7515 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1877 LINE COUNT: 00150

... instrument; however, separating them makes it easier to manipulate parameters specific to each generator.
PC- Sound is compact; every line of code is an operation. However, you must learn the language and how to translate a problem...

...any length using as many frames as needed to encompass a signal.
The removal of time - varying noise (several isolated high-frequency tones) from a recording is a common audio problem. After an area for FFT analysis is selected, a power spectrum is computed by averaging several FFT frames together. Three narrowband groups of high-frequency tones are clearly visible at 3.9...
...is passed through the filter as a test, and the output is run through the FFT . With the spurious tones suppressed, you can run the entire sampled sound through the filter...110 ft.
To do so, you must get the real impulse response, take the complex FFT of this response and multiply both its real and imaginary parts by a weighting factor, and perform the complex inverse FFT on the weighted signal and compute the magnitude.
In a sequence of processing steps, for...

...binary files. The impulse was sampled at 32,000 samples/sec.
W2 is the complex FFT of W1. Only the real part is displayed, but the imaginary part is maintained by...

...or assembly-coded FFTs can be replaced with calls to the Symmetric Research C source- code library. For voice -processing applications with 8-kHz sampling rates (8-bit [mu]law resolution), a TMS32C10-based...
CAPTIONS: FFT power spectra analysis of three groups of high-frequency tones. (graph)

9/3,K/5 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2008 ProQuest Info&Learning. All rts. reserv.

02733114 534633081
WAVELET ENERGY ABSORPTION-2: Here are velocity aspects of wavelet energy absorption
Lichman, E; Peters, S W; Squyres, D H
Oil & Gas Journal v102n3 PP: 36-44 Jan 19, 2004
ISSN: 0030-1388 JRNL CODE: OGJ
WORD COUNT: 4055

...TEXT: is still isothermal because the pore wall is still moving faster than the speed of sound in gas. But during the compression cycle the heat exchange cannot be neglected any more.

The increase in heat exchange results...

...compute the spectrum of the digital signal is the so-called Fast Fourier Transform method (FFT). The quality of such computed spectrum depends on the number of signal samples included into...

...window is that this window does not contain enough samples for reliable application of the FFT procedure. So the direct application of FFT to the short time-window does not produce the desired result. Hence, either the procedure...

...size does not contain enough signal samples to reliably compute the spectrum using the conventional FFT . This suggests some kind of interpolation of the entire seismic trace prior to the application of the windowed FFT .

The interpolation procedure has to be frequency-domain invariant. That is, the spectrum of the...

...zero-padding of the original spectrum to the desired Nyquist frequency (Fig. 21).

The inverse FFT will result in decreasing of the sampling rate (Delta)t

sub new

in proportion to the new expanded Nyquist frequency. But, because the spectrum is not changed , the new time samples will represent the same combination of monochromes as the original signal. This is the...

...of samples within the short time-window will increase accordingly and consequent use of the FFT on this window produces the stable and reliable spectrum of the windowed signal.

The entire...

...of instantaneous spectral decomposition. The window on the interpolated trace has enough samples to use FFT , but the computed spectrum spans the range between zero and new Nyquist frequency, whereas the...

...time-domain of the extracted window prior to the computation of the window spectrum using FFT procedure.

Next: The WEA method and four examples of its use.

Eritrea

Afrex Ltd. plans...

^9/3,K/6 (Item 1 from file: 88)

07732867 SUPPLIER NUMBER: 94207652
Assessment of the disordered voice: a roundtable discussion. (Tutorial).
Leonard, Rebecca; Dworkin, James Paul; Meleca, Robert J.; Colton, Raymond H.; Leeper, H.A.; Till, James A.
Journal of Medical Speech - Language Pathology, 10, 2, 111(21)
June, 2002
ISSN: 1065-1438 LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 14445 LINE COUNT: 01211

... vocal fold(s). In addition, a number of these patients also show increased ventricular fold compression during sustained vowel and contextual speech . These behaviors are recorded during the videostroboscopic procedures.

The initial history taking protocol by the...a) fundamental frequency, (b) intensity, (c) frequency and intensity perturbation, and (d) fast fourier transform (FFT) and linear predictive coding (LPC) spectra. Average fundamental frequency and intensity are measured from the...

...of the frequency/time problems in abnormal voices, so the algorithms used allow tracking of changes over time without the frequency -based errors of coming "in or out" of the noise background.

Average airflow rate during...

?

12/3,K/1 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)

01641251 SUPPLIER NUMBER: 15068607
Audio calls for better integer processing. (audio processing requires improved integer digital signal processors such as Zoran Corp.'s ZR38000) (Digital Signal Processing)
Horowitz, Spencer
Electronic Engineering Times, n785, p70(2)
Feb 21, 1994
ISSN: 0192-1541 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: for executing radix-2 FFT butterfly operations in only cycles and a 1,0240-point FFT in only 0.88ms.
?

14/3,K/1 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01641251 SUPPLIER NUMBER: 15068607
Audio calls for better integer processing. (audio processing requires improved integer digital signal processors such as Zoran Corp.'s ZR38000) (Digital Signal Processing)
Horowitz, Spencer
Electronic Engineering Times, n785, p70(2)
Feb 21, 1994
ISSN: 0192-1541 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: of consumer applications such as multichannel, CD-quality audio over existing transmission media and high- compression -rate speech processing. These applications require fast execution of complex, Fast Fourier Transform (FFT)-based compression technologies such as Multichannel MPEG and Dolby AC-3, wide dynamic range of 120 dB and low-cost implementations. FFT is the basic DSP algorithm for converting data from time to the frequency domain required for data compression , speech processing and high-quality audio . The 25-MHz ZR38000 architecture has several features that optimize it for FFT performance, including a 20-bit data word, dedicated barrel shifter and 32-bit opcodes. The latter provide a high degree of parallelism for executing radix-2 FFT butterfly operations in only cycles and a 1,0240-point FFT in only 0.88ms.

14/3,K/2 (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
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02710456 Supplier Number: 45498040 (USE FORMAT 7 FOR FULLTEXT)
NEW LARGE MEMORY DSP PROCESSOR FROM NEC ELECTRONICS TO BE SHOWN AT NEPCON
M2 Presswire, pN/A
April 27, 1995
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 398

... to the uPD7701X family of general -purpose DSP devices and will enable GSM half-rate speech coding .
The uPD77018 has a 256 x 32-bit instruction RAM and 24K x 32-bit...

...is intended for use in the next generation of communications equipment as well as real- time signal processing applications such as spectrum analysis, FFT analysis and digital filtering. They are also suited for use in digital mobile communications and...

14/3,K/3 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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04812685 SUPPLIER NUMBER: 09447175 (USE FORMAT 7 OR 9 FOR FULL TEXT)
What DOS does for DSP: '386 host cuts cost but is limited to data capture

and playback. (three software packages demonstrate digital signal processing capabilities on MS-DOS-based personal computers)
Norris, Harry
EDN, v35, n18A, p30(3)
Sept 6, 1990
ISSN: 0012-7515 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1877 LINE COUNT: 00150

... instrument; however, separating them makes it easier to manipulate parameters specific to each generator.

PC- Sound is compact; every line of code is an operation. However, you must learn the language and how to translate a problem...

...analysis

Hyperception's Hypersignal package is a menu-driven analysis/editing/synthesis program. Submenus offer time / frequency viewing and editing, filter design, convolution, difference equation computation, and various utilities. Because the package...
...any length using as many frames as needed to encompass a signal.

The removal of time -varying noise (several isolated high- frequency tones) from a recording is a common audio problem. After an area for FFT analysis is selected, a power spectrum is computed by averaging several FFT frames together. Three narrowband groups of high-frequency tones are clearly visible at 3.9...

14/3,K/4 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

03240249 Supplier Number: 44453276 (USE FORMAT 7 FOR FULLTEXT)
Audio calls for better integer processing
Electronic Engineering Times, p70
Feb 21, 1994
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1171

... of Dolby AC-3, for audio decoding.

Besides the frequency domain processing essential for data compression , high -fidelity audio and speech processing also require a dynamic range of 120 dB, which is beyond the capability of...

...sensitive audio applications.

Efficiency wanted

Frequency domain algorithms demand efficient execution of fast Fourier transform (FFT), the essential DSP algorithm that transforms data from the time domain to the frequency domain. Integer DSPs, the majority of which were first architected and announced in the mid-1980s, lacked sufficient processing capability to implement single-chip solutions for FFT -intensive algorithms. Efficient FFT performance burdened the system designer with the relative expense of either multiple integer DSPs or...
?